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	Total	N-Clones (208F-FE-8)	T-Clones (FE8-208F)
Number of sequenced cDNA clones	1257	669	588
Number of individual sequences	823	416	407
Sequence analysis			
Known genes (nr/Genbank)	427	207	220
Expressed Sequence Tags (dbest)	303	161	142
No similarity in data bases (new)	93	48	45
Expression analysis: Reverse Northern Analysis/con- ventional Northern Blot			
Differentially expressed	393	225	168
Known genes	244	126	118
Expressed sequence tags	104	74	30
New sequences	45	25	20
Not differentially expressed	194	86	108
Not detectable in expression analysis	236	105	131

FIG. 1



Genes that are adjusted down by H-Ras-transformation

Sequence Identity (Genbank/EMBL)	Species	Access Number	Redundancy	Extent of Adjustment	Verification
3', 5'-cyclic AMP phosphodiesterase	r	Z22867	1	>100	N1
Ahr repressor	m	AB015140	1	38.0	R
cAMP-dependent protein kinase type II	r	M12492	1	>100	R
CSF-1 (colony stimulating factor-1)	r	M84361	2	5.6	N2,R
Gas-6	m	X59846	1	24.0	R
Guanine nucleotide-binding protein G-s alpha	r	M12673	1	3.6	N3
I-TRAF (TRAF-interacting protein)	m	MMU59864	1	38.6	N4
IKK-complex-associated protein (IKAP)	h	AF014195	1	8.6	R
MARCKS	m	M60474	2	3.3	N5
MST2 kinase	r	AJ001529	2	21.6	R
Myo-inositol monophosphatase (IMP)	r	U84038	1	44.5	N6
P5 protein	ha	X62678	1	3.4	R
Phosducin-like protein (PhLP)	r	L15354	2	>100	N7,R
Phosphatidylinositol 3-kinase p110 beta	h	S67334	1	>100	N8
Phosphatidylinositol 3-kinase p170	m	U55772	1	65.9	N9,R
Protein tyrosine phosphatase delta (MPTPd)	m	D13903	1	1.9	R
ROK alpha	r	U38481	1	26.1	N10
Serum inducible kinase (SNK)	m	M96163	1	>100	N11,R
SH3 binding protein (SAB)	h	AB005047	1	3.5	R

Genes that are adjusted up by H-Ras-transformation

Sequence Identity (Genbank/EMBL)	Species	Access Number	Redundancy	Extent of Adjustment	Verification
AKAP-KL (A kinase anchor protein)	m	AF033276	1	16.1	T1,R
B61 (eck receptor ligand)	r	D38056	1	5.2	T2
c-Hn-ras-1	h	V00574	1	17.0	T3
c-yes	m	X67677	1	12.5	T4
Calmodulin-dependent protein kinase II-delta	r	J05072	1	8.1	R
Cyclooxygenase I	r	U03388	1	90.7	T5,R
Cytocentrin-Ral-binding protein 1	r	U28830	1	8.3	T6
FKBP51 (T-cell specific immunophilin)	m	U16959	1	68.2	T7
FLIP (FLICE-like inhibitory protein)	m	U97076	2	>100	T8
GEF-HI	h	U72206	1	32.1	T9
GTP-binding protein RAB5	r	AF072935	1	>100	T10
JAK1 protein-tyrosine kinase 1	r	AJ000556	1	55.0	T11
MAP-kinase phosphatase (cpq21)	r	AF013144	1	27.9	T12,R
p67 (isoprenylated 67 kDa protein)	r	M80367	1	98.2	T13
Phosphatase 2A B56	h	L42373	2	50.6	T14
Pkb kinase	r	Y15748	1	19.9	T15
R-esp2	r	L14463	1	>100	T16
Rap1B GTP binding protein	r	U07795	1	21.0	T17
Ras-GTPase-activating protein	m	AB001927	1	9.9	T18
RhoC	m	X80638	2	6.7	R
SBE1 phosphatase	h	U93181	1	27.1	T19,R
Sprouty 2 (SPRY2)	h	AF039843	2	11.60	T20,R
TDAG51	m	U44088	1	2.7	T21
Tyrosine phosphatase IA-2a	r	D38222	1	12.2	T22

FIG. 2



Nuclear Proteins (Transcription Factors, DNA Processing Enzymes)											
h	M60902	2	>100	N12	Alpha-prothymosin	r	M60664	1	2.4	R	
m	U46690	1	8.9	N13	BRCAL-associated RING domain protein (Bard1)	m	AF057157	1	3.5	T23	
m	S68108	1	13.1	N14	cdc-like-kinase (clk)	m	L29221	1	13.1	T24	
r	X64403	1	16.6	N15	FEN-1 (flap endonuclease-1)	m	L26320	1	11.1	T25	
m	D26089	1	3.9	R	Fra-1 (fos-related antigen 1)	r	M19651	3	>100	T26,R	
m	U03113	1	39.2	N16,R	Histone acetyltransferase (GCN5)	h	AF029777	1	2.7	T27	
h	AB019987	1	9.6	R	hNop56 nucleolar protein	h	Y12065	1	2.9	T28	
h	AF036899	1	5.1	R	LAPIC (lamina-associated polypeptide 1C)	r	U19614	1	7.6	T29	
m	U66887	1	3.4	N17,R	Myb-binding protein (P160)	m	U63648	1	5.9	T30	
h	U17163	1	9.6	N18	NF-1 transcription factor	m	U57635	1	71.8	T31	
m	D50563	1	7.4	N19	p100 transcriptional coactivator	h	U83883	1	4.9	R	
h	U78524	1	41.7	N20	PEBP2b2	m	D14571	2	45.4	T32	
h	AF017790	1	3.9	N21,R	RB (retinoblastoma protein)	r	D25233	1	6.5	T33	
h	AF015812	2	>100	N22,R	SA-1 (stromal antigen)	m	Z75332	1	89.1	T34,R	
h	Z48950	2	5.8	R							
m	X82786	1	>100	N23,R							
r	U18314	4	>100	N24,R							
m	D45210	1	5.6	N25							
m	S76673	1	3.6	R							
h	U17989	1	31.9	R							
h	AJ007558	1	15.2	N26							
m	AF079557	1	2.4	R							
m	U95141	2	64.9	R							
h	AF077048	1	4.9	R							
r	U24175	1	1.8	N27							
m	D10061	1	20.1	R							
r	Z19552	3	2.1	R							
Protein Processing, Protein Transport and Protein-folding Molecule											
h	AB003103	1	3.5	N28	Aminopeptidase P (APP)	r	AF038591	2	5.6	R	
m	S69316	1	2.2	R	Chaperonin containing TCP-1 epsilon (CCT)	m	Z31555	2	2.2	T35,R	
m	D67016	1	15.1	N29	Exportin	h	AF039022	4	48.5	T36	
h	X15183	1	4.8	N30,R	GRP75	r	S78556	2	2.1	R	

FIG. 2A



MG-160 (Golgi apparatus sialoglycoprotein)	r	U08136	1	2.3	R	HRUSP (herpes ass. ubiquitin-specific protense)	h	272499	1	28.8	R
Rsec6	r	U32575	1	56.0	N31	Importin alpha Q1	m	AF020771	1	10.6	R
Translocation protein-1	c	D87127	1	>100	N32	MPPB (mitochondrial processing peptidase beta)	r	L12965	1	4.3	R
						Ran-GTPase	m	S83456	1	19.7	T37
						Sec61	r	M96630	2	29.2	T38,R
						Sort1 (sortilin)	h	X98248	1	10.5	T39
						Translation initiation factor 3	h	U94855	1	5.7	T40,R
Metabolic Enzymes, Transporters and Ion Channels											
3-beta-hydroxysteroid dehydrogenase isomerase	r	S63167	4	5.0	R	4F2he intestinal type II membrane glycoprotein	r	U59324	4	2.9	T41
3-hydroxy 3-methylglutaryl coenzyme A synthase	r	X52625	2	12.7	R	ABC transporter MOAT-B	h	AF071202	1	10.8	T42,R
Aldehyde dehydrogenase	r	J03637	1	37.8	N33	Acyl-CoA synthetase 1	r	D30666	1	4.1	R
Alpha-mannosidase II	m	X61172	1	6.3	R	Aldehyde reductase	r	D10854	1	4.0	T43
Antioxidant enzyme AOE372	m	U96746	1	1.8	N34	Asparagine synthetase	r	U07201	4	15.3	R
AP56 (acetaminophen-binding protein)	m	S56599	1	59.7	R	ATP citrate-lyase	r	J05210	2	3.1	R
Apobee-1 binding protein I	h	U76713	1	>100	N35	Bleomycin hydrolase	r	D87336	2	8.5	T44,R
CaBP1 (calcium binding protein)	r	X79328	2	4.7	N36	CIC-6a (chloride channel)	h	X99473	1	19.6	R
Calcium channel beta subunit-III	r	M88751	1	18.8	N37	Farnesyl pyrophosphate synthetase	r	M34477	2	3.3	T45,R
Dihydropyrimidinase related protein-3	h	D78014	1	2.3	R	Glucose-6-phosphate dehydrogenase	r	X07467	1	2.4	R
Glutamine synthetase	r	M91652	3	10.4	R	Glutathione reductase	r	U73174	1	2.7	T46,R
NADH dehydrogenase chain 5	r	X14848	1	2.5	R	Glvir-1 (leukemia virus receptor 1)	m	M73696	2	22.2	R
NADH dehydrogenase chain 6	r	X13220	1	5.3	R	MCT1 monocarboxylate transporter	r	X86216	1	7.5	R
NADP transhydrogenase	m	Z49204	1	12.3	N38	Mitochondrial trifunctional protein	r	D16478	1	2.4	T47
Phosphatidate phosphohydromse type 2	r	U90556	1	6.2	N39	Non-neuronal enolase (NNE)	r	X02610	5	2.5	R
Selenoprotein P	r	M63574	2	31.8	N40	NPC-1 protein	m	AF003348	1	3.1	R
						Phosphoglycerate mutase type B	r	S63233	4	5.6	R
						Stenroyl-CoA desaturase 2	r	AF036761	1	7.5	R
						Transcript ass. with monocyte differentiation	h	X85750	1	8.2	T48
						Transporter protein (gl7)	h	U49082	1	4.2	R
						X-chromosome linked phosphoglycerate kinase	r	M31788	1	2.9	R

FIG. 2B



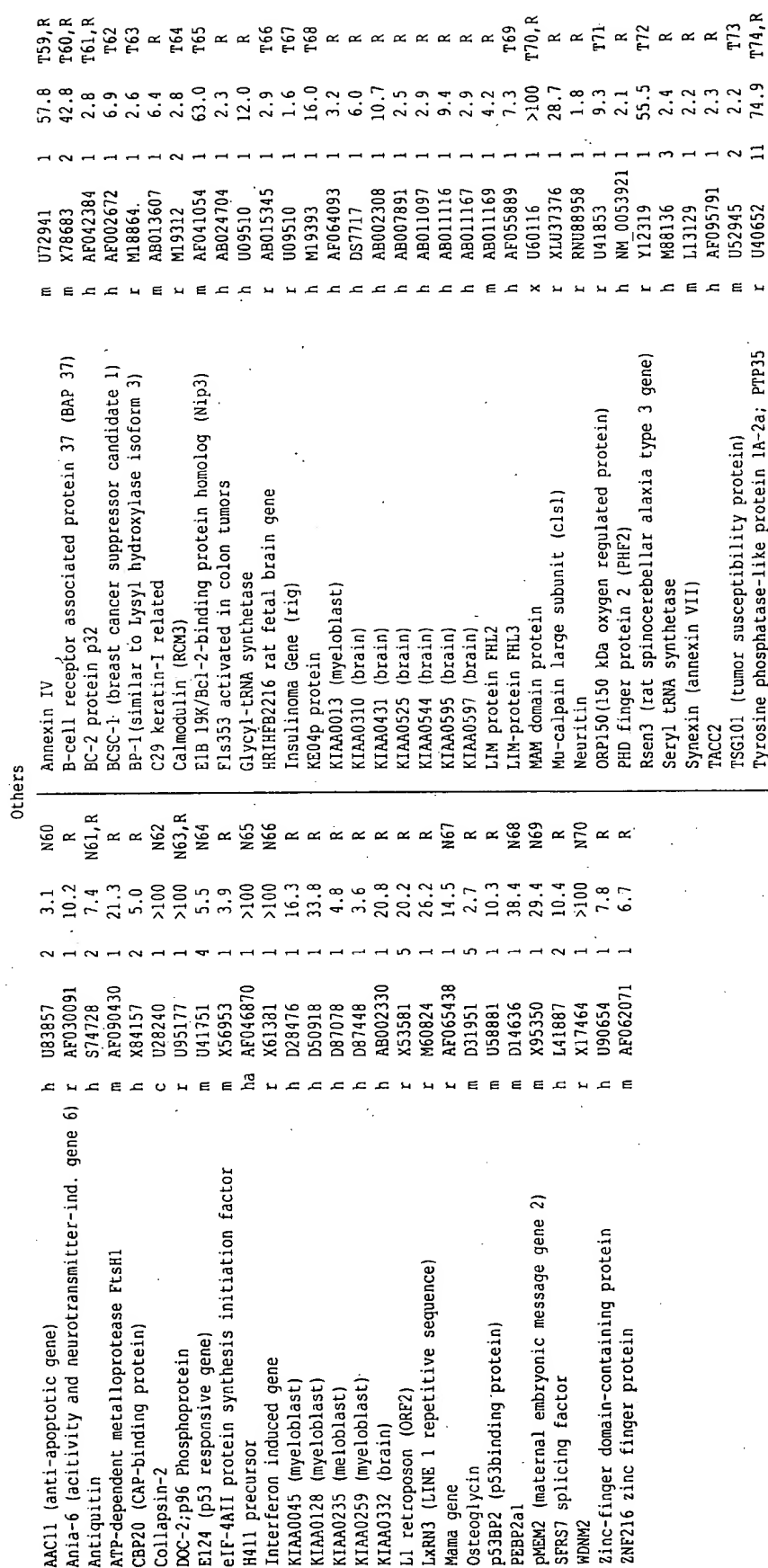
Cytoskeleton Components-Molecule Involved in Adhesion and Cell-Cell Interaction

ABP-280 (actin-binding protein/filamin)	h	X53416	1	5.8	R	Arp3 (actin-related protein 3)	h	AF006083	3	3.3	T49, R
Alpha-actinin	r	X06801	5	4.2	R	Calcium-binding protein pp52/ISPL/WP34	m	M89956	2	29.7	T50, R
Cadherin-11	m	X77557	1	11.7	R	Calponin	r	U06755	1	5.2	R
Caldesmon	r	U18419	3	37.7	N41	CD44 glycoprotein	r	M61875	1	17.0	T51, R
Cytoshesin-2	r	U70728	1	>100	N42	Laminin receptor	m	J02870	5	4.1	R
Gas-1	m	X65128	1	10.4	R	Leukocyte adhesion protein p150, 95	h	Y00093	2	5.2	R
HSPG core fibroglycan (syndecan-2)	r	M81687	1	61.9	N43, R	MAGE-B gene cluster	h	U93163	2	15.3	T52
huEAP microtubule associated protein	h	NN004434	1	26.9	N44	Myosin regulatory light chain	r	D14688	1	6.9	R
MLC-2	r	S77900	2	2.6	N45, R	TAL oncofetal gene	r	U00995	2	1.9	T53
P-cadherin	m	X06340	1	60.1	N46	Thymosin beta 4	r	M34013	1	2.4	T54, R
Podoplanin	r	U96449	1	9.4	R						
Ryudocan	r	S61868	6	27.7	N47, R						
Tropomyosin 4	r	T00169	1	7.8	N48, R						
TRPM-2/clusterin	r	M64723	1	39.4	N49						
Vimentin	r	X62952	1	1.6	R						

Extracellular Proteins

Collagen alpha1	r	Z78279	34	22.3	R	MMP-1 (Collagenase)	r	M60616	19	>100	T55, R
Cyt61 (immediate-early gene)	m	M32490	4	16.0	N50, R	MMP-3 (Stromelysin 1)	r	X02601	7	32.3	T56, R
Entactin/Nidogen	m	X14194	14	35.8	N51	MMP-10 (Stromelysin 2)	m	X05083	12	33.8	R
Fibrillin-1 (Fbn1)	m	U22493	1	3.3	R	Mob-1	r	U17035	2	2.4	T57, R
Fibronectin	r	X15906	25	>100	N52	Testin	m	X78990	1	8.9	T58
FISP-12	m	M70642	2	49.4	N53						
Follistatin-related protein; TSC-36	r	U06864	5	2.0	N54, R						
Laminin B1	m	M15525	1	5.0	R						
Lysyl oxidase	r	U11038	14	9.2	R						
Lysyl oxidase-related protein (WS9-14)	h	U99942	1	59.2	N55, R						
Megakaryocyte potentiating factor	m	D86370	3	6.0	N56						
MGF (mast cell growth factor)	m	U44725	1	13.4	N57						
MMP-2 (Gelatinase A)	r	U65656	3	50.6	N58, R						
Thrombospondin 1	m	M62470	25	42.5	R						
TIMP-2 (inhibitor of metalloproteinase 2)	r	S72594	1	18.3	N59, R						

FIG. 2C





Expressed Sequence Tags (EST)

Down-adjusted ESTs		Up-adjusted ESTs	
ESTAA003402	ESTAA276763	ESTAA066174	ESTAA925028
ESTAA028510	ESTAA276806	ESTAA079499	ESTAA943118
ESTAA033320	ESTAA286358	ESTAA182063	ESTAA945179
ESTAA067238	ESTAA289129	ESTAA417685	ESTAI007739
ESTAA086565	ESTAA372927	ESTAA571144	ESTAI031015
ESTAA122792	ESTAA399748	ESTAA589539	ESTAI044161
ESTAA153720	ESTAA412823	ESTAA616986	ESTAI234525
ESTAA154450	ESTAA462855	ESTAA792426	ESTD76796
ESTAA161894	ESTAA497642	ESTAA798353	ESTHSAC001070
ESTAA163325	ESTAA516974	ESTAA800034	ESTW20810
ESTAA163444	ESTAA517260	ESTAA801415	ESTW65969
ESTAA170629	ESTAA517339	ESTAA847689	
ESTAA200452	ESTAA572112	ESTAA850112	
ESTAA203784	ESTAA575650	ESTAA850123	
ESTAA245968	ESTAA589518	ESTAA853333	
ESTAA266966	ESTAA607513	ESTAA858918	
ESTAA267114	ESTAA646710	ESTAA859425	
ESTAA268366	ESTAA667811	ESTAA891266	
ESTAA270146	ESTAA674143	ESTAA924000	
25 New Sequences		20 New Sequences	

FIG. 2E



Sequence Identity (Genbank/EMBL)	Expression Strength			Sequence Identity (Genbank/EMBL)	Expression Strength		
	208F	FE8	+PD		208F	FE8	+PD
3-hydroxy 3-methylglutaryl coA synthase	+++	+	+++	Bleomycin hydrolase	+	+++	++
ABP-280 (actin binding protein/filamin)	+++	++	+++	BRCA1-associated RING protein (Bard1)	0	++	+
Alpha-actin	+++	+	+++	E1B 19K/Bcl-2-binding protein (Nip3)	0	+++	++
Antioxidant enzyme AOE372	++	+	++	Exportin	0	+++	++
AP56 (acetaminophen-binding protein)	++	0	++	FEN-1 (flap endonuclease-1)	0	+++	+
Cdc21	++	0	+++	FKBP51 (T-cell-specific immunophilin)	0	++	0
Centromeric protein CENPC (a)	+++	0	++	FLIP (FLICE-like inhibitory protein)	0	+++	+
Collagen alpha 1	+++	+	+++	GEF-H1	0	+++	0
CSF-1 (colony stimulating factor 1)	++	0	++	LAPIC (lamina associated polypeptide 1)	0	+++	+
DOC-2; p96 phosphoprotein	++	0	+++	MAM domain protein	0	+++	+
ERS1 transcription factor	+++	+	++	MAP-kinase phosphatase (cpg21; (c)	0	+++	0
ETF transcription factor	+++	0	++	MMP-10 (Stromelysin-2) (d)	0	+++	0
Fibronectin	+++	+	+++	MMP-3 (Stromelysin-1)	0	+++	+
Follistatin-related protein; TSC36	++	+	+++	Myb-binding protein (Pi60)	+	++	0
GRP94/endoplasmic	+++	+	+++	NF-1 transcription factor	+	+++	++
Gu binding protein	+++	0	++	Non-neuronal enolase (NNE)	+	+++	+
Heat shock protein 90	++	0	++	ORP150 (150 kDa oxygen regulated)	+	+++	++
HSPG core fibroglycan (syndecan-2)	+++	0	++	p67 (isoprenylated 67 kDa protein)	0	+++	+
Interferon induced gene	+++	0	++	PKB kinase	0	+++	+
L1 retroposon (ORE2)	+++	0	++	Rap1B GTP binding protein (e)	0	+++	+
Laminin B1	+++	+	++	Ras-GTPase-activating protein	0	+++	+
Lysyl oxidase	++	0	++	Rsc33 (rat spinocerebellar ataxia gene)	0	++	+
Lysyl oxidase-related protein (WS9-14)	+++	0	+	SA-1 (stromal antigen)	0	+++	++
Mama gene	+	0	+++	Sort1 (Sortilin)	++	+++	++
MMP-2 (Gelatinase A)	++	+	++	TSG101 (tumor susceptibility protein)	++	+++	++
mTFE3 (transcriptional activator)	++	0	+++				
Nuclear autoantigen GS2NA	++	0	++				
Osteoglycin	+++	+	++				
P5 protein	++	0	+++				
P-cadherin	+++	0	+				
Phosducin-like protein (PhLP)	+++	0	++				
Serum inducible kinase (SNK)	++	0	+++				
STAT5a1 transcription factor	+++	0	+				
Thrombospondin 1	+++	+	++				
TRPM-2 (inhibitor of metalloproteinase 2)	+++	+	++				
TRPM-2/clusterin (b)	+++	+	+++				

FIG. 3



Sequence Identity (Genbank/EMBL)	Expression Strength			
	208F	FE-8 H-Ras	208F K-Ras	208F N-Ras
ABC transporter MOAT-B	0	++++	0	+
BCSC-1 (breast cancer suppressor candidate 1)	+	++++	0	+
Cyclooxygenase 1	+	++++	+	+++
ElB 19K/Bcl-2-binding protein (Nip3)	0	++	++++	++
EST AA743557	++++	+	0	++
EST AA792426	+	++++	+	+
EST AA924000	+	++++	+	++
ETF TEA domain containing transcription factor	++++	0	++	++
Farnesyl pyrophosphate synthetase	+	+++	0	+
FEN-1 (flap endonuclease-1)	0	++++	+	0
FLIP (FLICE-like inhibitory protein)	0	+	++	++++
JAK1 protein tyrosine kinase 1	+	++++	+	+
MAGE-B gene cluster	0	++++	0	0
MAP-kinase phosphatase (cpg21)	0	++	+++	++++
MARCKS	++++	0	+	+++
MMP-10 (Stromelysin 2)	0	++	++	++++
Mob-1 (f)	0	++++	++	+
mTFE3 (X-linked transcriptional activator)	++++	0	+	+
Myb-binding protein (P160)	+	++++	++	++
novel transcript N317	++++	0	++	++++
P-cadherin (g)	++++	0	0	++
Phosphatidylinositol 3-kinase p170	+++	0	+	++
Ras-GTPase-activating protein	0	++++	0	0
SBF1 phosphatase	0	++++	+	+
Serum inducible kinase (SNK) (h)	++++	0	+++	+++
Tyrosine phosphatase IA-2a (i)	0	++++	0	++

FIG. 4

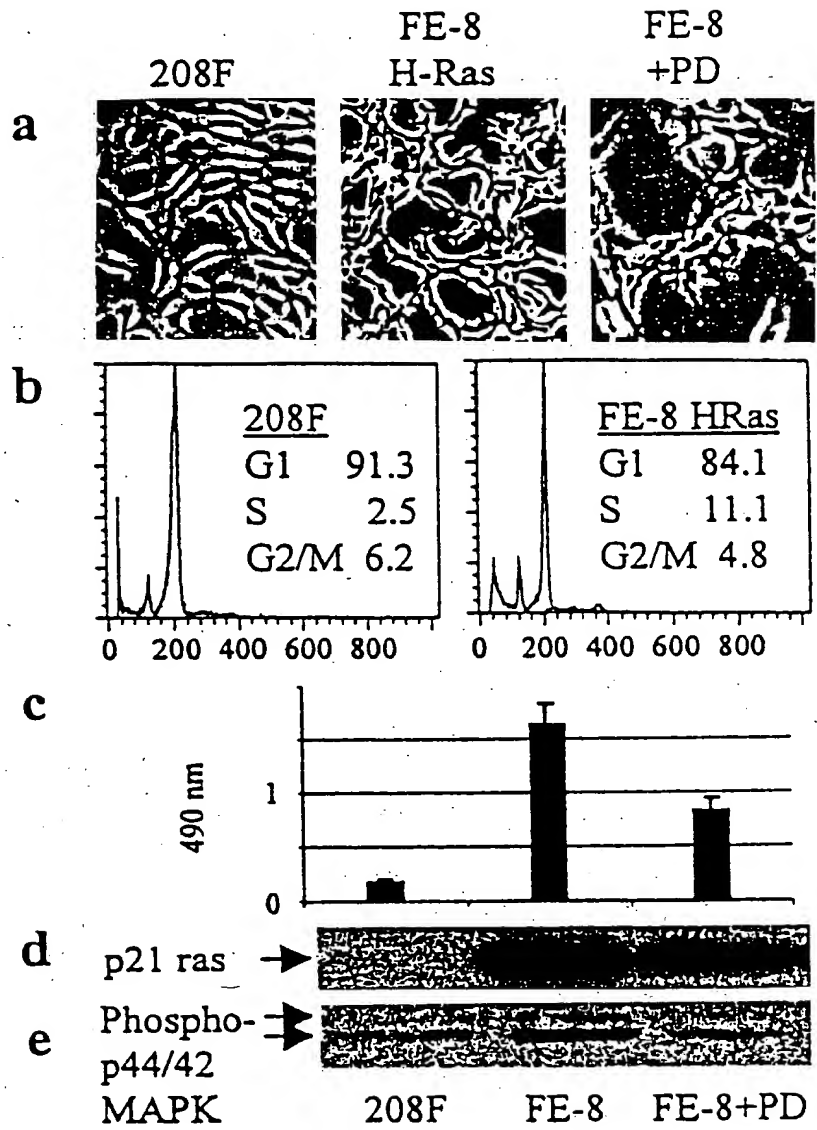


FIG. 5

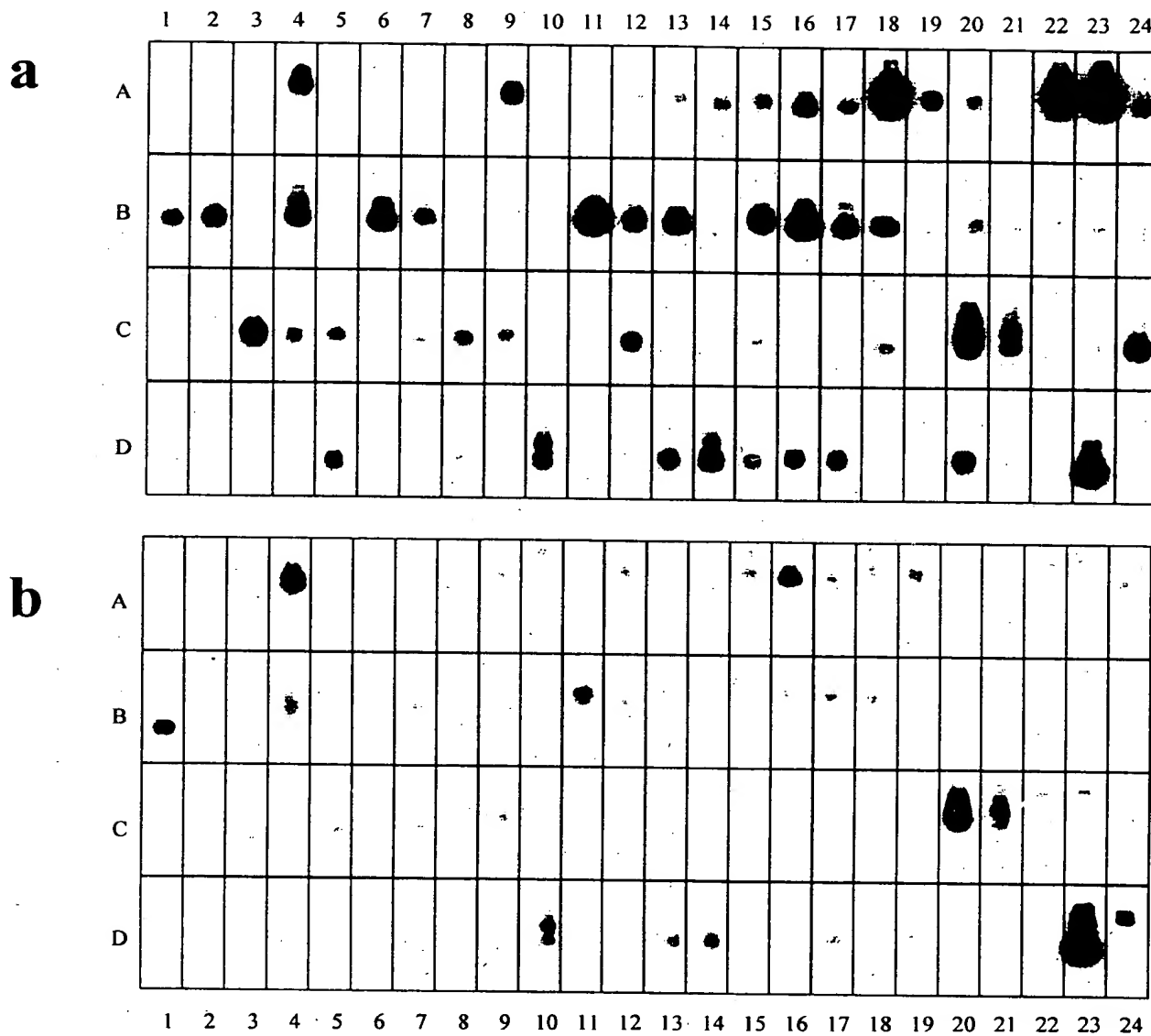


FIG. 6

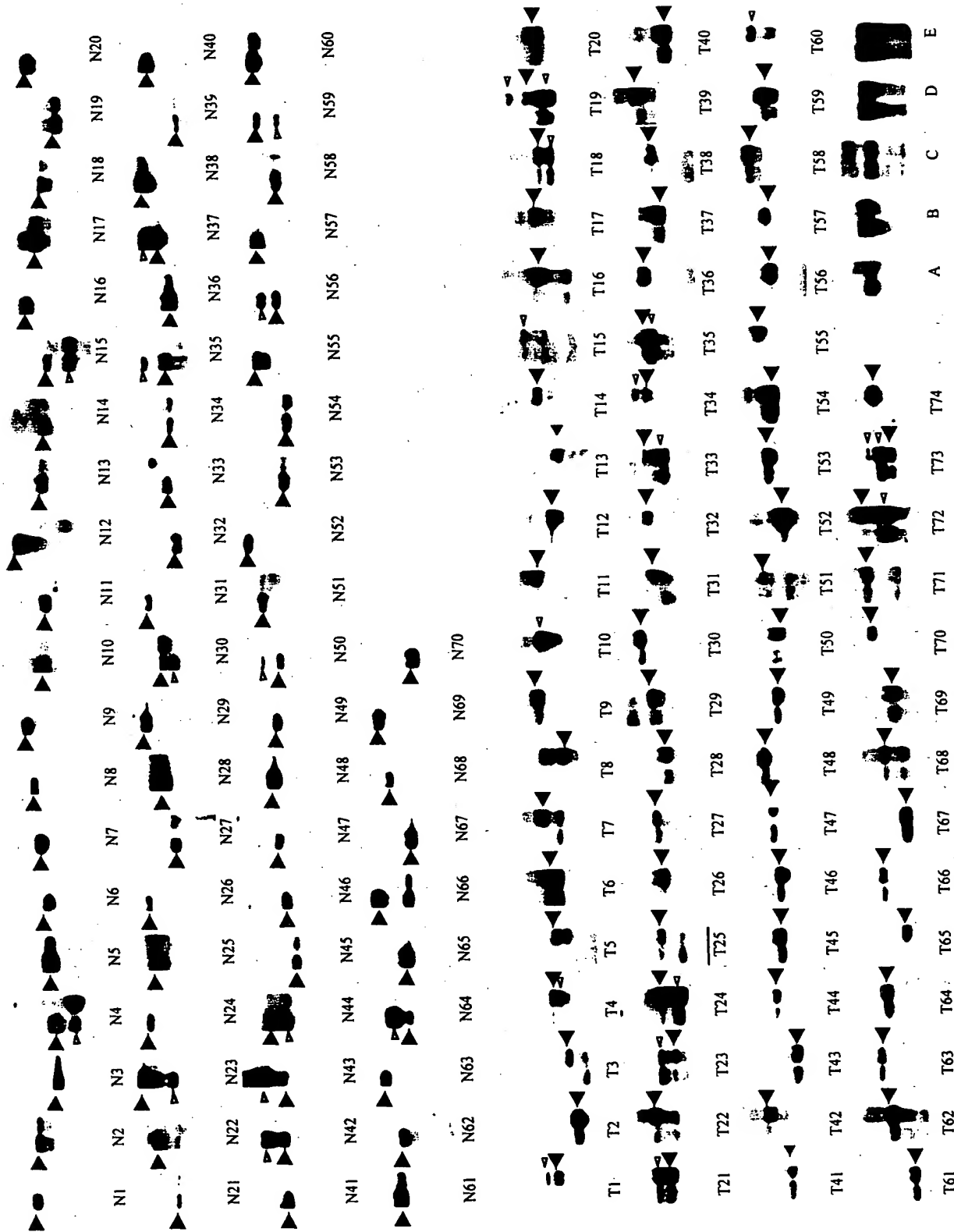


FIG. 7

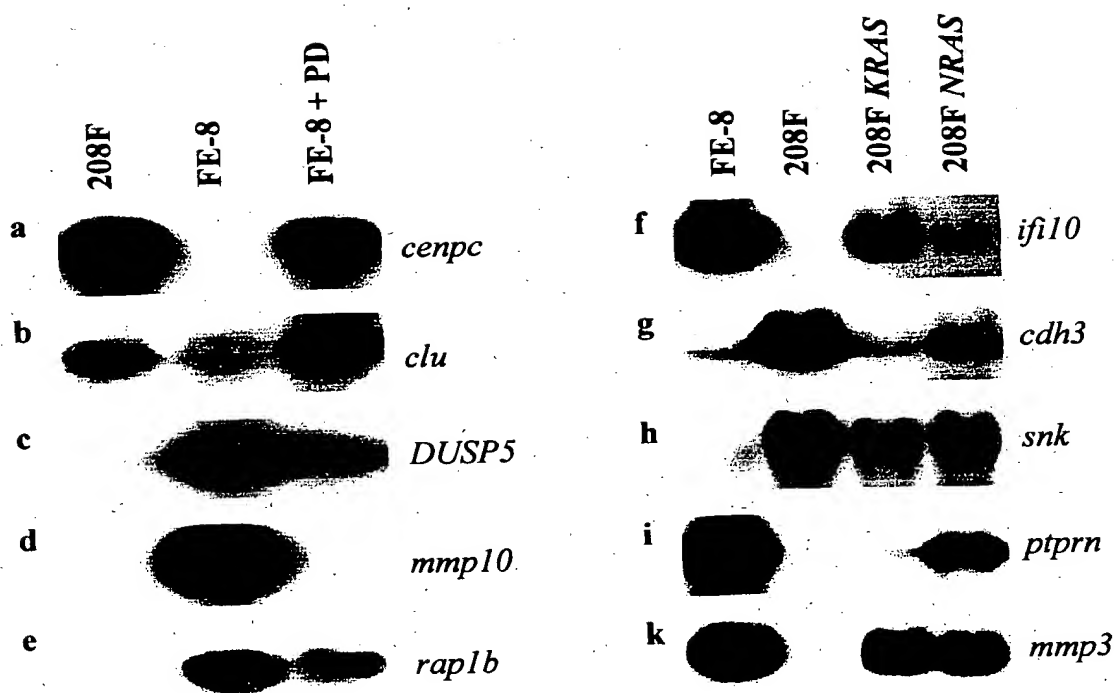


FIG. 8

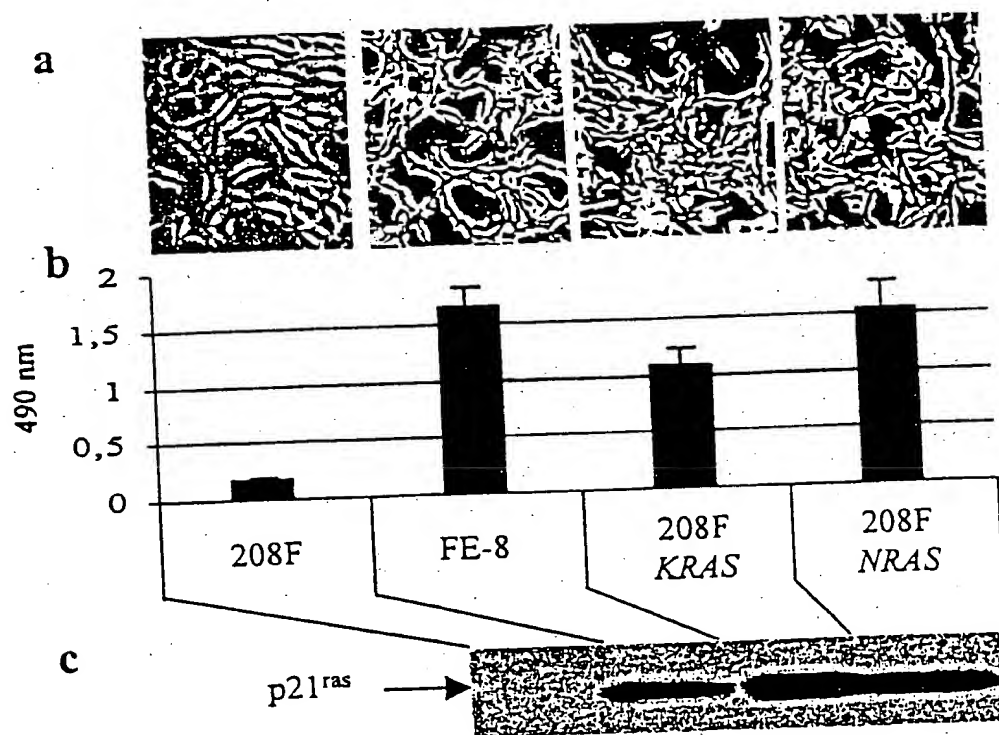


FIG. 9

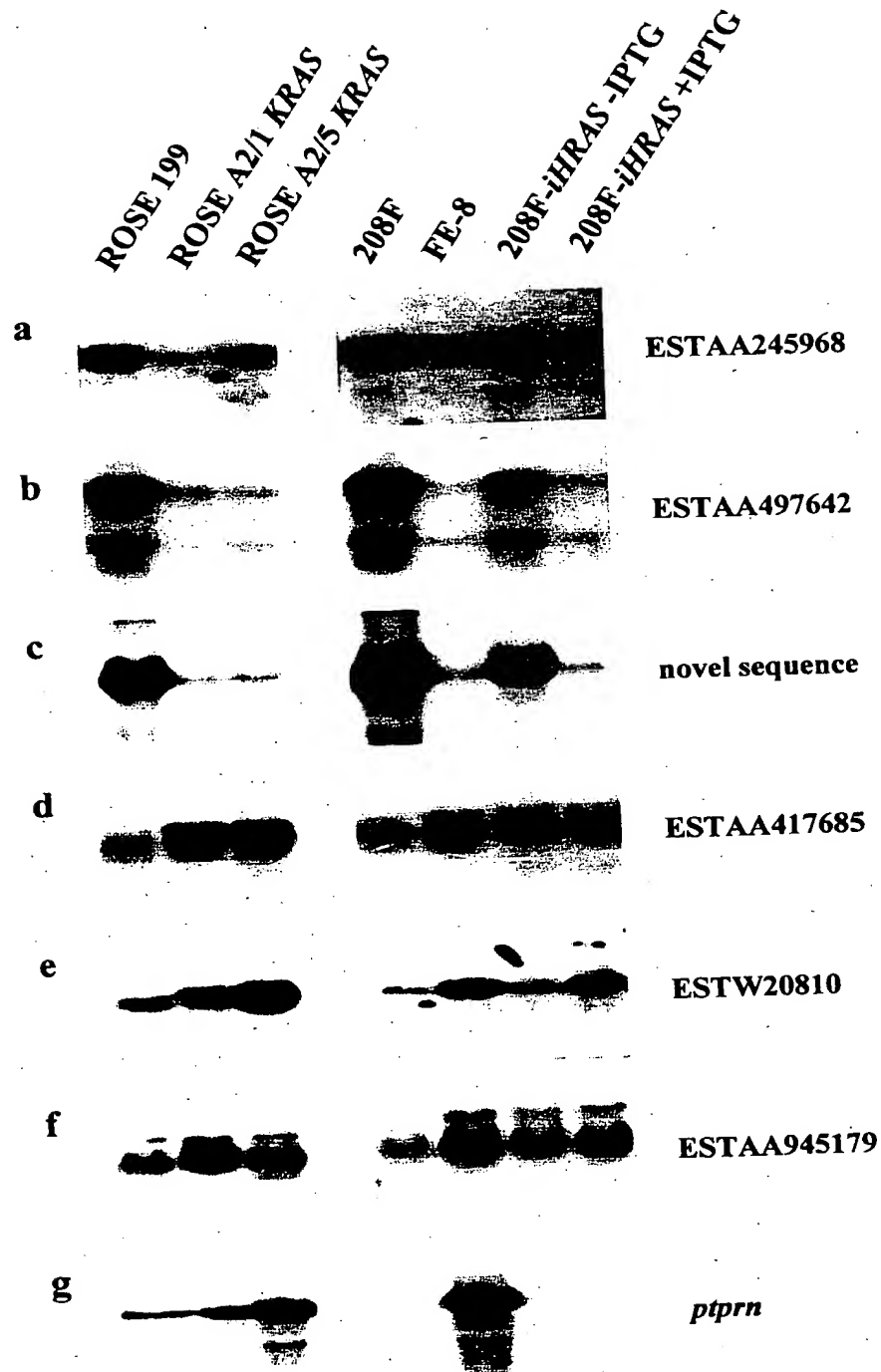


FIG. 10



- 1 T59
- 2 T182
- 3 T32
- 4 T6
- 5 T34
- 6 N5
- 7 N20
- 8 N280
- 9 N271
- 10 N126
- 11 T148
- 12 N199
- 13 T64
- 14 N131
- 15 T20
- 16 T162
- 17 T141
- 18 N77
- 19 N104
- 20 T49
- 21 T16
- 22 N189
- 23 N28
- 24 T124
- 25 T216
- 26 T60
- 27 T37
- 28 T160
- 29 N101
- 30 N40
- 31 T54
- 32 T120
- 33 N159
- 34 T185
- 35 N151
- 36 T147
- 37 N188
- 38 T25
- 39 T47
- 40 T43
- 41 T139
- 42 T176
- 43 N144
- 44 T35
- 45 T98
- 46 T15
- 47 T138
- 48 N21
- 49 T76
- 50 T103
- 51 T143
- 52 T44
- 53 N31
- 54 T243
- 55 N129
- 56 T193
- 57 T132
- 58 T137
- 59 T217
- 60 T191
- 61 N42
- 62 T156
- 63 T67

FIG. 11



64	N196
65	T21
66	N34
67	N134
68	T119
69	N36
70	N209
71	N256
72	T105
73	T75
74	T153
75	T189
76	T86
77	T111
78	T144
79	N192
80	N103
81	N270
82	N255
83	N61
84	N137
85	T174
86	N22
87	T2
88	T237
89	T19
90	N156
91	N59
92	N235
92	N248
92	N249
92	N252
92	N257
93	T38
94	T121
95	N10
96	T129
97	T66
98	T36
99	T40
100	N1
101	N212
102	T100
103	N112
104	N3
105	N238
106	T183
107	T238
108	T166
109	N29
110	T225
111	N175
112	N142
113	T72
114	N186
115	T212
116	T196
117	T48
118	N132
119	N158
120	T69
121	N7
122	T245

FIG. 11A



123	N102
124	T208
125	N44
126	T205
127	T215
128	N283
129	T226
130	T253
131	T222
132	N264
133	T240
134	N70
135	T125
136	N253
137	N234
138	N55
139	N202
140	N82
141	T45
142	T118
143	T10
144	N71
145	N183
146	N165
147	N213
148	N35
149	N182
150	N43
151	N75
152	T163
153	T89
154	N11
155	N32
156	T50
157	N215
158	N242
159	N181
160	N48
161	T227
162	N149
163	N109
164	N260
165	T219
166	T61
167	N85
168	N45
169	T250
170	N261
171	T172
172	N62
173	N160
174	N154
175	N58
176	T232
177	N128
178	N79
179	T58
180	N30
181	T68
182	T244
182	T251
182	T96
183	N26

FIG. 11B



184	N14
185	N121
186	T17
187	T3
188	T117
189	T14
190	T73
191	N4
192	N289
193	T239
194	T170
195	T146
196	N17
197	T235
198	N74
199	N18
200	T211
201	T186
201	T204
202	N50
203	N116
204	T223
205	N198
206	N267
207	T133
208	T80
209	N218
210	N266
211	T224
212	N148
213	N108
214	N263
215	N250
216	N92
217	N152
218	T11
219	T159
220	N243
221	N78
222	T116
223	T27
224	N207
225	T31
226	N38
227	N163
228	N81
229	T94
230	N228
231	N80
232	T230
233	T188
234	N190
235	N187
236	N136
237	N294
238	N275
239	N65
240	N89
241	N125
242	N205
243	N39
244	N13
245	T48

FIG. 11C



246	T100
247	T223
248	N104
249	N35
250	T245
251	N32
252	T62
253	N125
254	N180
255	N22
256	T61
257	T125
258	T174
259	T36
260	T19
261	T204
262	T153
263	T27
264	T212
265	T159
266	T226
267	T239
268	N263
269	T66
270	N75
271	N250
272	T175
273	N283
274	T40
275	N152
276	N256
277	N28
278	T160
279	T82
280	N122
281	T170
282	N44
283	N18
284	T103
285	N126
286	N55
287	T42
288	T34
289	N158
290	N21
291	N154
292	N80
293	T189
294	T17
295	T68
296	T14
297	T146
298	T120
299	N181
300	N192
301	T109
302	N215
303	T244
303	T251
304	T96
305	T211
306	T243
307	N218

FIG. 11D



308	T224
309	T94
310	T183
311	N294
312	T191
313	T88
314	T9
315	N204
316	N175
317	N129
318	T141
319	N188
320	N209
321	T111
322	T144
323	N213
324	N109
325	N62
326	T235
327	N198
328	N148
329	N78
330	T116
331	N46
332	N49
333	N51
334	N52
335	T26

FIG. 11E